AUTHOR INDEX—VOLUME 39

Ackland, Christopher M. 428
Ackland, M. Leigh 428
Agathos, Spiros N. 291
Aizawa, Shinichi 146
Ajmone-marsan, P. 124
Akatsu, Hiromi 337
Albassam, Mudher 402
Anderson, Steven M. 170
Anding, Allyson L. 273
Andrews, Annette 13
Arai, Shigeyuki 80
Ariyasu, Toshio 80
Arterburn, Linda M. 13
Asada, Nobuyuki 321
Asashima, Makoto 71
Athwal, Harpinder 235
Atomi, Yoriko 71
Auersperg, Nelly 178
Auger, F. A. 213
Auger, François A. 131
Avila, Pedro C. 266

Bai, Wenlong 304
Baker, Erin L. 434
Ballez, Jean-sébastien 291
Barnes, David W. 449
Barzen, Katherine A. 170
Beqaj, Safedin H. 343
Bergeron, François 131
Bergers, Mieke 36
Bernardi, J. 124
Bernier, V. 213
Bhattacherjee, Vasker 257
Bignotti, E. 124
Blackburn, Michael 8
Blay, Jonathan 340
Bobrowski, Walter 402
Bomser, Joshua A. 388
Bond, Christopher 107
Boulet, L. P. 213
Boutet, M. 213
Bove, Kathleen 140
Breisch, Eric 29
Brown, Lanika A. 13
Brown, Nathan L. 98
Buchanan, John 29
Burns, Jane C. 29
Burteau, Caroline C. 291
Bygraves, Jane A. 235

Candal, Francisco 424
Caputo, Guido F. 270
Carlberg, James M. 29
Carrick, Frank N. 110
Chang, Ching-jin 221
Chang, Pi-ling 420
Chayama, Kazuaki 321
Chegdani, F. 124
Chen, Luping 449
Chueh, Ling-ling 221
Chung, S. C. Sydney 413
Colby-Germinario, Susan P. 275
Cook, Barbara J. 270
Coplen, Douglas E. 157
Cowger, Nancy L. 13

Dame, Michael K. 402
Dennis, Robert G. 434
Doreen, Cross-Doersen 407
Dowell, Lori 449
Drexler, Hans G. 468

Ebling, Peter M. 270
Elsen, Kim 8
Eric McDuffie, J. 402

Feavers, Ian M. 235
Feng, Gong 420
Fensterer, Jeffrey 63
Ferrari, M. 124
Finkbeiner, W. E. 51, 56
Fleck, Roland A. 235
Floyd, Timothy 4
Frondoza, Carmelita G. 4, 228
Funakoshi, Masako 1

Gabrin, Michael 63
Garcia, Martha 283
Garrido, Rosario 402
Gelman, Dale B. 8
George, Lisa D. 63
Germain, Glen S. 273
Germain, L. 213
Germain, Lucie 131
Germinario, Ralph J. 275
Gibbs, E. Paul J. 249
Girjes, Adeeb A. 110
Goulet, F. 213
Grasela, James J. 353
Greaves, Mark 428
Greene, Robert M. 257
Grenier, Guillaume 131
Gudjonsson, Thorarinn 297
Guignard, Rina 131
Gwilt, Peter G. 280

Haller, Edward 304
Hanaya, Toshiharu 80
Hanazono, Makoto 146
Hara, Koyu 1
Hartley, Sonya M. 13
Hartridge, Tom 98
Hayasaka, Shouji 114
Hayashido, Yasutaka 321
Hicks, Patricia 420
Hidaka, Miyoko 368
Hidalgo, Ismael J. 283
Hide, Izumi 89
Hirose, Hideki 348
Hockley, David J. 235
Hoie, Eric B. 280
Howard, Pamela S. 157
Hoyt, Dale G. 43
Huang, Hong 43
Hungerford, David S. 4, 228

Iijima, Tatsuo 440
Iinuma, Kazuie 364
Ikeda, Masao 80
Imanishi, Shigeo 1, 114
Inoue, Chiyoko N. 364
Inoue, Hajime 1
Isfort, Robert J. 407
Ishiyama, Tadashi 440
Itami, Toshiaki 208
Iwai, Mineko 288
Iwai, Yoshiaki 288
Iwasaka, Masakazu 120

James, Calvin B. L. 460
Janssen-heininger, Yvonne M. W. 163
Jiang, Feng 304
Johnson, Calvin M. 249
Johnson, Zelpha B. 395

Kacena, Melissa A. 454
Kadam, V. D. 193
Kajiyama, Goro 321
Kan, Mikio 321
Kanno, Masamoto 89
Kano, Junko 440
Kanouchi, Hiroaki 263
Kataoka, Katsuko 89
Katsushima, Fumio 364
Kawarabata, Takeshi 1
Kawase, Tomoyuki 243

Kelders, Marco C. J. M. 163
Kelly, Scott P. 21
Kent, Kyle D. 388
Kim, Hyung H. 117
Kimura, Yusuke 368
Kitamoto, Mikiya 321
Knott, Lynda 98
Kondo, Yoshiaki 364
Kornblith, Paul 63
Kramer, Beverley 196
Kumagai, Takanori 89
Kumei, Yasuhiro 89
Kurimoto, Masashi 80
Kusumoto, Ken-ichi 449
Kyono, Fumiyo 80

Labbé, Raymond 131
Landis, William J. 454
Langen, Ramon C. J. 163
Larkin, Lisa M. 434
Larsen, Ann M. 140
Laviolette, M. 213
Lee, Jia-lin 221
Lee, Kristen E. 110
Leung, Peter C. K. 178
Li, Albert P. 13
Li, Jibin 283
Li, Wen 413
Ligman, Heather R. 29
Limesand, Kirsten H. 170
Lin, Chung-tien 221
Lin, Seh-ching 424
Lincoln, David W. 140
Liu, Hsi 424
Liu, Merry Y. 424
Livingston, Sandra 304
Loeb, Marcia J. 8
Losio, M. N. 124
Lowthers, Erica L. 340

Ma, Guozhong 449
Macarak, Edward J. 157
Maeda, Minoru 208
Magida, Jason A. 183
Malicki, Denise M. 29
Manouilov, Konstantine K. 280
Mansell, Jason P. 98
Matagrano, Lisa B. 183
Matsuda, Masahiko 288
Matsumoto, Shuji 80
Matsuo, Aya 263
McGee, Dennis W. 183
McGuire, Timothy R. 280
McIntosh, Arthur H. 353
McIntosh, Jane 43
McNeel, Ronald L. 375
Mericko, Patricia 449
Mersmann, Harry J. 375
Meyer, Corinna 468
Milanesi, E. 124
Miller, Ana P. 13
Mitsuda, Kazuhiko 1
Mitsuhashi, Jun 114, 399
Miyakoshi, Junji 120, 348
Miyazaki, Yoshiyuki 383
Mizuki, Eiichi 208
Mols, Johann F. 291
Morimoto, Tetsuji 364
Morishita, Yukio 440
Moubarak, Ali S. 395
Murphy, Hedwig S. 402

Nakahara, Takehisa 348
Nakamura, Naoko 440
Nakanishi, Toshio 321
Nakaya, Mako 383
Nicosia, Santo V. 304
Nielsen, Helga Lind 297
Nilceia, Lopez-souza 266
Nishio, Toshiyuki 364
Noguchi, Masayuki 440

O'Brian Smith, E. 375
Ochs, Robert L. 63
Oguro, Akira 243
Ohba, Michio 208
Ohnuma, Shoko 364
Ohori, N. Paul 63
Oka, Tatsuzo 263
Okamoto, Tetsuji 321
O'Leary, R. 204
Orellana, Stephanie A. 199
Orikasa, Michiaki 243
Overstreet, Michael 4, 228
Owen, Albert 283

Pachter, Joel S. 313
Paquette, J. S. 213
Paranjape, Smita 193
Park, Chung S. 117
Parton, Angela 449
Patil, B. R. 193
Penny, Clem 196
Petersen, Ole William 297
Phillips, Patricia G. 140
Phillips, Ruth B. 29
Pisano, M. Michele 257
Pol, Arno 36
Polotsky, Anna 4, 228
Post, David 343

Qiang, Feng 178
Quiñones, Andrea M. 199
Quissell, David O. 170

Rager, Joseph 283
Rappaport, Catherine 187
Raynolds, Mary V. 170
Reiss, Tanika 273
Rémy-Zolghadri, Murielle 131
Reyland, Mary E. 170
Richard, Cynthia L. 340
Rønnov-Jessen, Lone 297
Rosenkrans, Charles F. 395
Roskelley, Calvin D. 178
Ryan, Jon M. 343

Sachs, L. A. 51, 56
Sanders, Linda A. 170
Sandy, Jonathon R. 98
Sato, J. Denry 449
Saunders, Beatriz O. 304
Schalkwijk, Joost 36
Schneider, Yves-jacques 291
Schols, Annemie M. W. J. 163
Sclafani, Robert A. 170
Shannon, Timothy E. 460
Shappell, Nancy W. 329
Shike, Hiroko 29
Shimizu, Chisato 29
Silber, Paul M. 13
Smagghe, Guy J. 8
Sohrabi, Afshin 228
Soncini, M. 124
Song, Li 313
Stacey, Glyn N. 235
Steube, Klaus G. 468
Strab, Robert 283
Su, George Nan-chang 368
Sugiyama, Masanori 89
Sunagawa, Norio 364
Sweat, James M. 249

Tachibana, Hirofumi 263, 383
Takeda, Sin'ichi 89
Tanaka, Mikihito 71
Tanaka, Yoshiharu 321
Todd, Paul 454
Tokiwa, Takayoshi 337
Tomooka, Yasuhiro 146
Toratani, Shigeaki 321

Toumadje, Arazdordi 449
Tremblay, P. 213
Tukiyama, Takashi 337

Ueno, Shoogo 120
Umezu, Tomohiro 146
Uphoff, Cord C. 468

Vafai, Abbas 424
Van Olst, Jack 29
Varani, James 402
Verhoeye, Françis R. 291
Villadsen, René 297

Walker, Mary 428
Wang, Fen
Wang, Qing 283
Ward, John 428
Wells, Alan 63
Westerman, Mark 29
Widdicombe, J. H. 51, 56
Widdicombe, Jonathan H. 266
Wood, Chris M. 21
Wood, E. J. 204
Wouters, Emiel F. M. 163

Yamada, Koji 263, 383
Yamamoto, Gaku 368
Yamasaki, Masao 383
Yamazaki, Taisuke 337
Yasunaga-Aoki, Chisa 1
Yokoyama, Takashi 337
Yonei, Shuji 348
Yu, Xinwen 402
Yuge, Louis 89

Zand, Ladan 178
Zhang, Qiu-mei 348

SUBJECT INDEX—VOLUME 39

20-hydroxyecdysone 8
3D clinostat 89
7-hydroxycoumarin 13

α-sm actin expression 297
α-thrombin 204
A6 71
acceleration 454
adaptation 193
adipocyte differentiation 375
adipocyte proliferation 375
airway epithelium 266
angiogenesis 140
animal 413
antioxidant 388
antiretroviral inhibitors 275
aorta 43
apoptosis 170
arteriosclerosis 402
ATPase 21
authentication 424

β-catenin 221
β-myosin heavy chain 407
bacterial 235
beetle 399
biliary epithelial cell 440
biopharmaceuticals 291
biosafety 291
biotechnology regulatory system 107
bladder 157
blood–brain barrier 313
bone 4
bone cells 454
bone marrow cell 243
BrdU 208
breast 297
brefeldin A 170
bronchial brushing 266

c-Fos 348
c-Jun 348
c-Myc 348
C2C12 cells 163
calvarial cells 368
cAMP 199
carbohydrates 80
cell culture 114, 266, 399, 424
cell culture system 291
cell culture techniques 468
cell cultures 124
cell growth 208
cell line 288, 337
cell line authenticity 468
cell motility 178
cell orientation 120
cell proliferation 110, 117
cellular differentiation 235
characterization 193
chemotherapy 340
chick dorsal pancreatic bud 196
CHO 320 cells 291
ciliated cell 146
ciliogenesis 213
circulation 402
claudin-5 313
coculture 383
collagen 157, 204, 228
collagen gel sandwich 364
colony 120
confocal laser scanning microscopy (CLSM) 368
contractility 297
craniofacial development 98
cross-contamination 468
crustacean 208
culture 402, 440
cyclic AMP 199
cyclin D1 221
CYP1A1/2 283
CYP3A4 283
cytochrome P450 13
cytokeratin 110
cytokeratin staining 29
cytokine 183, 337
cytotoxicity 340

dexamethasone 337
diamagnetism 120
differentiation 71, 243, 321
differentiation 440
DNA fingerprint 353
DNA sequencing 424
dog 402
dose–response 270
drug-screening model 36, 283
drug resistance 273
drug–drug interactions 283

electron microscopy 29, 364
embryoid body 449
embryonic 257
embryonic cell 399
endothelial cell 131
endothelium 43
endotoxin 43
enzyme-linked immunosorbent assay 263
epithelia 199
epithelial-derived mesenchymal cells 297
epithelial 249
ergonovine 395
ergopeptine 329
ergotamine 395
ergovaline 329, 395
ES cell 449
estrogen 140, 383
estrogen receptor 304, 383
etoposide 170
exfoliation 364
extracellular matrix 178

fat and muscle cell effects 275
fescue toxicosis 329, 395
FGF receptor 321
FGFs 321
fibrin 204
fibroblast 204
fibronectin 157, 178
fish karyotype 29
flexibility 187
flow cytometry 368, 413, 449
fluoride 243
folic acid 98
force 157
FPMI-CF-203 270
FPMI-CF-2C1 270
functional tissue engineering 131

G protein–coupled receptors 80
gastric cancer 288
gastrointestinal cells 329
glucagon 196
glucose transporter 434
glucose uptake 434
granulocyte 243
growth 187, 321
growth factor–reduced Matrigel 196
growth factors 388

health 107
heart 402
hepatocellular carcinomas 321
hepatocyte 440
hepatoma 321

HGF 288
high–aspect ratio vessel 13
HIV-1 virus 275
horse serum 163
human β-actin promoter 420
human airway epithelium 56
human B cell lines 263
humans 235
hydrogen peroxide 388
hydroxyurea 280
hypergravity 71
hyperplasia 8
hyperthermic 193
hypertrophy 407

IL-1 183
IL-8 288
ImmortoMouse 304
immunocytochemistry 449
in vitro 36, 440
in vitro model 204
in vitro transcription 460
insect 1, 399
insect cell line 353
insects 114
insulin 196
inter–simple sequence repeats 353
interferon-&gamma 43
intestinal epithelial 183
intracellular calcium 80
intracellular hydrogen peroxide 413
invasion 178
ion transport 21, 51, 56
isoenzymes 124
isozyme patterns 1
ISSR 353

JB6 cells 420

karyotype 1

lamivudine 280
laser-scanning confocal microscopic analysis 263
lepidoptera 114
lipopolysaccharide 383
lipoprotein lipase 375
Lymantria dispar 8
lymphocyte 383

magnetic field 120
magnetic field gradient 348
malignant cells 63
mammary cancer 117
mammary gland tumor 221
MAPK 89
marine mammal 249
Matrigel 163, 428
MCF-7 117
mechanical harvesting 131
mesenchyme 257
metamorphosis 8
methionine 117
mice 43
microcarrier 228
microgravity 454
midgut stem cells 8
mitochondria-rich cells 21
mitogens 388
MMP 337
molecular markers 124
monocyte 243
monocytes 413
motility 71
mouse 140, 257
mRNA 157
mucociliary 249
multicellular spheroids 340
multilayer 187
myooid 434

Na+–K&plus 21
nasal scraping 266
neutrophils 235, 413
nuclear polyhedrosis virus 1

occludin 313
oleic acid 375
osmolality 21
osteoblast 228
osteoblasts 4, 89
osteoclast 243
osteoporosis 4
ovarian epithelial cancer 304
ovarian surface epithelium 178, 304
ovaries 114
ovary 208
over-agar 420
oviduct epithelium 146
oxidative stress 98
oxygenation 187

p38 89
p53-deficiency 146
p53 117
palate 257
pavement cells 21
PCR 273, 424
pentoxyresorufin-O-dealkylase 13
perfluorocarbon 187
perivascular fibroblast 131
phagocytosis 235, 413
phosphorylation 280
PicoGreen 36
PKA 199
plant biotechnology 107
polarity 364
polymerase III 460
porous-bottomed inserts 51, 56
potency 340
PPAR&gamma 375
prawn 208
primary cell culture 208
primary culture 1, 43, 63, 170, 221
progression 321
proliferation assay 36
proliferative capacity 4
protein kinase A 199
protein synthesis 263
protooncogene 348
psoriasis 36
public policy 107
pulmonary 249

rapamycin 273
retinoid 196
rotating bioreactors 368
rotating wall vessel 13

salivary gland 170
SAPK/JNK 89
sarcopenia 407
scanning electron microscopy (SEM) 368
scanning electron microscopy 428
secretory cell 146
self-assembly approach 131
sex hormones 146
SFRP2 221
short-circuit current 51
signaling 257
simulating microgravity 89
single-nucleotide polymorphisms 343
skeletal muscle 163, 407, 434
smooth muscle cell 120, 131
soft agar 420
solid tumors 63
species identification 468
species origin 124
species PCR 468
spinner culture 228
Spodoptera littoralis 8

spruce budworm 270
static magnetic field 348
strain 157
stromal–epithelial interaction 304
substratum 187
sustainability 107
sweetener 80
synovial sarcoma 337

T1Rs 80
TATA box–binding protein 460
teleost 29
TFIIIB 460
tight junctions 313
tissue-engineered human bronchial models 213
tissue culture 110
transepithelial electrical resistance 51
transient transfection 420

urokinase-plasminogen activator 343
ursine 4

vasculature 402
VEGF 140, 288
vibration 454

Western blot 110
wild silkworm 1
Wnt signaling 221
wound healing 204

xenograft 273
Xenopus laevis 71

zidovudine 280